

What is claimed is:

1. A soft magnetic member, comprising:
an insulating layer;
a metal sublayer disposed opposite to said insulating layer; and
a soft magnetic metal layer disposed on said metal sublayer,
wherein a region having a higher saturation flux density than other regions is formed in said soft magnetic metal layer on the side of said metal sublayer.
2. A soft magnetic member according to claim 1, wherein said metal sublayer is constituted by a material having a larger anisotropic magnetic field than said soft magnetic metal layer.
3. A soft magnetic member according to claim 1, wherein said other regions are constituted by a material having higher permeability than said region of high saturation flux density.
4. A soft magnetic member according to claim 1, wherein a unit comprising said insulating layer, said metal sublayer and said soft magnetic metal layer is laminated in multiple layers.
5. A soft magnetic member according to claim 1, wherein a metal oxide layer is interposed between said insulating layer and said metal sublayer.

6. A soft magnetic member, comprising:
 - a first region constituted by a resin material;
 - a second region which is disposed opposite to said first region and constituted by an alloy containing Fe and manifesting soft magnetism;
 - a third region disposed between said first region and said second region and constituted by a metal having a larger anisotropic magnetic field than said second region; and
 - a fourth region which is disposed between said second region and said third region and has a higher Fe concentration than said second region.
7. A soft magnetic member according to claim 6, wherein said second region and said fourth region are constituted by an alloy containing Ni and/or Co, and Fe.
8. A soft magnetic member according to claim 7, wherein said second region and said fourth region are constituted by an alloy having the same component elements.
9. A soft magnetic member according to claim 8, wherein an Fe concentration in said fourth region increases continuously toward said third region.
10. A soft magnetic member according to claim 7, wherein said third region is constituted by Ni or an Ni based alloy.

11. A soft magnetic member according to claim 6, wherein a unit comprising said first region, said second region, said third region and said fourth region is laminated in multiple layers.

12. An electromagnetic wave controlling sheet, comprising:
a substrate having flexibility;

a conductive metal layer supported by said substrate;
and

a soft magnetic metal layer which is supported by said conductive metal layer and is constituted by an Fe-Ni based alloy,

wherein between said conductive metal layer and said soft magnetic metal layer, is interposed a compound which improves a magnetic coupling between said conductive metal layer and said soft magnetic metal layer,

said substrate having a thickness of 25 μm or less, said conductive metal layer having a thickness of 100 nm or less, and said soft magnetic metal layer having a thickness of 1 μm or less.

13. An electromagnetic wave controlling sheet according to claim 12, wherein said conductive metal layer is constituted by Ni.

14. An electromagnetic wave controlling sheet according to claim 12, wherein said substrate is constituted by PET (polyethylene terephthalate) or PBT (polybutylene terephthalate).

15. A method of manufacturing a soft magnetic member, comprising:

a step (a) for forming a conductive metal film on a resin film; and

a step (b) for forming a soft magnetic metal film containing Fe on said conductive metal film by electrolytic plating,

wherein in said step (b), a region is formed on the side of an interface with said conductive metal film in said soft magnetic metal film, and the Fe concentration of said region is higher than the average Fe concentration of said soft magnetic metal film.

16. A method of manufacturing a soft magnetic member according to claim 15, wherein said step (b) is performed under conditions set so that the Fe concentration of said soft magnetic metal film decreases continuously, with increasing distance from the interface with said conductive metal film.

17. A soft magnetic member, comprising:

an insulating layer;

a metal sublayer disposed opposite to said insulating layer; and

a soft magnetic metal layer disposed on said metal sublayer,

wherein providing that the thickness of said metal sublayer is denoted by s and the thickness of said soft magnetic metal layer is denoted by p , then the relationships hold: $5 \leq p/s < 10$ and $0 < s < 100$ nm.

18. A soft magnetic member according to claim 17, wherein said metal sublayer is constituted by a material having a higher coercive force or a larger anisotropic magnetic field than said soft magnetic metal layer.

19. A soft magnetic member according to claim 17, wherein said soft magnetic metal layer is constituted by an alloy containing 20 to 80 wt % Fe, and Ni and/or Co.

20. A soft magnetic member according to claim 17, wherein a unit comprising said insulating layer, said metal sublayer and said soft magnetic metal layer is laminated in multiple layers.

21. A soft magnetic member, comprising:

an insulating layer;

a metal sublayer disposed opposite to said insulating layer; and

a soft magnetic metal layer disposed on said metal sublayer,

wherein a region having a higher saturation flux density than other regions is formed in said soft magnetic metal layer on the side of said metal sublayer,

and providing that the thickness of said metal sublayer is denoted by s and the thickness of said soft magnetic metal layer is denoted by p , then the relationships hold: $5 \leq p/s < 10$ and $0 < s < 100$ nm.

22. A soft magnetic member, comprising:

an insulating layer;

a metal sublayer disposed opposite to said insulating layer; and

a soft magnetic metal layer disposed on said metal sublayer,

wherein providing that the thickness of said metal sublayer is denoted by s and the thickness of said soft magnetic metal layer is denoted by p , then the relationships hold: $4 \leq p/s \leq 15$ and 100 nm $< s \leq 1000$ nm.